FIS Portal

Overview and Prototype Demonstration

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Presentation Goals

- Portal Technology
- Value of the Prototype
- Metadata Integration
- Implementation Approach

What is Portal Technology?

- Integrator of data from disparate sources
- Clearinghouse of existing data collection programs and applications
- Source of relevant information through personalization
- Collaborative community environment
- Promotes sharing of best practices
- Link to outside sources

Not Just Another Web Site

TYPICAL WEB SITE

- Picture of facility
- Announcements
- Links to other sites
- Pictures of fish
- Links to reports

FIS PORTAL

- Applications for key audiences
- Communities of interest
- Universal search
- Targeted content
- Workspaces for every project
- Users collaborate on & publish content

Value of the Prototype

- Introduce the portal concept
- Sample different capabilities of portal technology
- Develop the software framework that will harness fisheries content
- Serve as a catalyst to foster the FIS mission
- Obtain stakeholder feedback

Metadata is key

- The process of collecting metadata through InPort will enable us to inventory what is possible
- FIS' success is largely dependent on everyone's commitment to populate the metadata stores
- Metadata will enable stakeholders to understand the objects that are available to them
- Portal will be another gateway to Metadata information
- Close collaboration between PIFSC and SEFSC to integrate metadata

Portal Implementation Approach

- Research portal technology
- Evaluate available portal solutions to match FIS requirements
- Identify best of breed
- Explore existing portal implementations
- Establish technical infrastructure
- Develop core functionality
- Assemble communities and organize content

Portal Framework - Software

- **Application Server Suite**
  - Solutions that bring together the four key integration infrastructure technologies (portal user interface, business process, application, and data) into a single package that is combined with an application server and collaboration services.
  - IBM, Oracle, BEA, and Sun
- **Independent Portal Solutions**
  - Pure-play portal vendors offer a packaged solution that integrates together the key features of an independent portal (categorization, search, and personalization) with collaboration and content management services, and in some cases business intelligence tools
  - Microsoft, Plumtree (market leader), and Vignette
- **Open Source**
  - Free, open-standard portal alternatives using Java, XML, JSP and J2EE, many adhering to the JSR 168 Specification for Portlet API Standard. Many useful portlets are available (Mail, Document Library, Calendar, Message Boards, to name a few) and can be used as the basis for developing custom portlets
  - Liferay, Exo, Jetspeed, Jahia

Opportunity to leverage existing work

- Collaboration with NBII (i.e. National Biological Information Infrastructure)
- Portal implementation widely acclaimed
- Greatly reduces development time
- Utilizes leading portal technology
- Allows distributed development from remote locations
- Adheres to industry standards (JSR-168, WSRP, SOAP)
- Provides native 508 compliance
- Increases visibility of fisheries information and outreach

FIS Portal Project Phased Approach

PHASE I – Prototype

- Setup FIS Portal environment
- Creation of initial communities with personalization
- Implementation of the Portal administration interface
- Initial population of the Portal database with data provided by the InPort/Metadata project
- Development of Portlets to enable user collaboration, searching, and data reporting
- Implementation of automated functionality to track Portal usage statistics, user comments, and surveys

FIS Portal Project Phased Approach

PHASE II – Expansion

- Emphasis on acquisition of content
- Development of the FIS Portal Content Governance:
  - FIS Portal organizational structure and operational guidelines
  - Content organization and presentation
  - Create additional Communities of Interest and the formal process for managing content
  - Roles and responsibilities (portal administrators, community managers, content producers, etc)

Expand Content & Functionality Through Phases

FIS Portal Project Phased Approach

PHASE II – Expansion (cont'd)

- Development of advanced portal capabilities to provide non-technical users the tools for generating content within the established portal framework
- Development of metadata portlets to extend integration with inPort, by providing metadata entry capabilities directly through the portal interface
- Development of commonly used, parameter-driven reports to provide quick snapshots of fisheries related data
- Training for content producers and developers that are close to the portal communities they support

Expand Content & Functionality Through Phases

Questions

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